

N THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION OF:) <u>CERTIFICATE OF MAILING</u>
SHANNA D. KNIGHTS, JARED L. TAYLOR,	I hereby certify that this correspondence is being
DAVID P. WILKINSON and	deposited with the United States
STEPHEN A. CAMPBELL	Postal Service as first class mail postage prepaid, in an envelope
SERIAL NO. 10/689,876	addressed to: Commissioner for Patents, P.O. Box 1450,
FILED: October 20, 2003	Alexandria, VA 22313-1450, on this date:
FOR: SUPPORTED CATALYSTS FOR THE ANODE OF A VOLTAGE REVERSAL TOLERANT FUEL CELL) Leonary 9, 2004
GROUP ART UNIT: 1745) Robert W. Fieseler
EXAMINER: Not yet assigned.) Registration No. 31,826) Attorney for Applicants

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicants submit herewith form PTO/SB/08A listing the cited references.

Applicants also submit herewith a copy of each of the foreign documents and other

publications cited, for consideration by the U.S. Patent and Trademark Office in connection with the above application.

U.S. Patent No.	Inventor(s)	<u>Date</u>
4,454,169 4,716,087 5,681,435 5,871,860 5,904,832 6,007,934 6,165,635	Hinden et al. Ito et al. Joshi et al. Frost et al. Clifford et al. Auer et al. Auer et al.	06/1984 12/1987 10/1997 02/1999 05/1999 12/1999 12/2000
Foreign Patent No.	Country	<u>Date</u>
0 047 595 0 827 225 WO 99/53557 0 450 849 0 872 906 WO 01/15247 09-035736 10-270057 0 716 463	Europe Europe PCT Europe Europe PCT Japan Japan EPO	04/1985 03/1998 10/1999 01/2000 10/2000 03/2001 07/1997 01/2002 06/1992
Publication/Abstracts "Carbon: Electrochemical and Physicochemical Properties", John Wiley & Sons, Inc., New York, USA pp. 390-391	<u>Author(s)</u> Kinoshita	<u>Date</u> 1988

Publication/Abstracts	Author(s)	<u>Date</u>
"Nafion®-bonded porous titanium oxide electrodes for oxygen evolution: towards a regenerative fuel cell," <i>J. of Applied Electrochemistry</i> , 21:982-985	Hamnett et al.	1991
"Simulation Studies on the Fuel Electrode of a H_2 - O_2 Polymer Electrolyte Fuel Cell," Electrochimica Acta, Vol. 37 No. 15, pp. 2737-2745.	Wang et al.	1992
"New Materials for Water Electrolysis and Photoelectrolysis," Hydrogen Energy World Conference, pp. 2065-2092	Savadogo	1996
"Fuel Cells and Their Applications," VCH Publishers, Inc.	Kordesch and Simader	1996
"Regenerative Fuel Cell Subsystems", Electrochemistry Course 869 at Simon Fraser University, pp. 1-12	Unknown	11/96

7

Publication/Abstracts	Author(s)	<u>Date</u>
"Low Cost Electrodes for Proton Exchange Membrane Fuel Cells", Journal Of The Electrochemical Society, 144(11):3845-3857	Ralph et al.	11/97
"Measurements of Proton Conductivity in the Active Layer of PEM Fuel Cell Gas Diffusion Electrodes," Electrochimica Acta, Vol. 43, No. 24, pp. 3703-09.	Boyer et al.	1998
"Composition and Performance Modeling of Catalyst Layer in a Proton Exchange Membrane Fuel Cell," Journal of Power Sources, Vol. 77 No.1, pp. 17-27.	Marr et al.	1999

The above references are listed on the enclosed substitute Form PTO/SB/08A entitled "Information Disclosure Statement By Applicant."

This Information Disclosure Statement is being submitted before receipt of a first Office Action on the merits of the application.

Please charge any fees incurred in connection with this submission to Deposit Account No. 13-0017 in the name of McAndrews, Held & Malloy, Ltd.

Respectfully submitted,

Robert W. Fieseler

Registration No. 31,826

Attorney for Applicants

McANDREWS, HELD & MALLOY, LTD. 500 West Madison Street, 34th Floor Chicago, Illinois 60661

Telephone (312) 775-8000 Facsimile (312) 775-8100

Dated:

PTO/SB/08A (08-03)

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCÉ

Under the Paperwork Reduction act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

form 1449A/PTO

FEB 1 1 2004

SABBRUE B

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if	Known
Application Number	10/689,876
Filing Date	October 20, 2003
First Named Inventor	Shanna D.
First Named Inventor	Knights
Group Art Unit	1745
Examiner Name	Not assigned
Attorney Docket Number	12622US02

	U.S. PATENT DOCUMENTS				
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initial*	No. ¹	Number-Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
	A1	4,454,169	06/1984	Hinden et al.	
	A2	4,716,087	12/1987	Ito et al.	
	A3	5,681,435	10/1997	Joshi et al.	
	A4	5,871,860	02/1999	Frost et al.	
	A5	5,904,832	05/1999	Clifford et al.	
	A6	6,007,934	12/1999	Auer et al.	
	A7	6,165,635	12/2000	Auer et al.	

	FOREIGN PATENT DOCUMENTS					
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	Т6
Initials*	No. ¹	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	<u> </u>
	A8	EP 0047595	04/1985			
	A9	EP 0827225	03/1998			
	A10	PCT WO 99/53557	10/1999			
	A11	EP 450849	01/2000			
	A12	EP 872906	10/2000			
	A13	PCT WO 01/15247	03/2001			
	A14	JP 09-035736	07/1997			
	A15	JP 10-270057	01/2002			
	A16	EP 0716463	06/1992			

		OTHER ART NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	A17	Kinoshita, "Carbon: Electrochemical and Physicochemical Properties", John Wiley & Sons, Inc., New York, USA pp. 390-391, 1988
	A18	Hamnett et al., "Nafion®-bonded porous titanium oxide electrodes for oxygen evolution: towards a regenerative fuel cell," <i>J. of Applied Electrochemistry, 21:982-985</i> , 1991
	A19	WANG et al., "Simulation Studies on the Fuel Electrode of a H₂-O₂ Polymer Electrolyte Fuel Cell," Electrochimica Acta, Vol. 37 No. 15, pp. 2737-2745, 1992

			T
EXAMINER		DATE CONSIDERED	
SIGNATURE			
SIGNATURE			

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450 Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. Send TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

der the Paperwork Reduction act of 1995, no persona are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary))

Sheet 2 Of 2

Complete if Known		
Application Number	10/689,876	
Filing Date	October 20, 2003	
First Named Inventor	1745	
Group Art Unit	1745	
Examiner Name	Not assigned	
Attorney Docket Number	12622US02	

		OTHER ART NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	A20	SAVADOGO, "New Materials for Water Electrolysis and Photoelectrolysis," <i>Hydrogen Energy World Conference</i> , pp. 2065-2092, 1996
	A21	KORDESCH and SIMADER, "Fuel Cells and Their Applications," VCH Publishers, Inc., 1996
	A22	"Regenerative Fuel Cell Subsystems", <i>Electrochemistry Course 869 at Simon Fraser University</i> , pp. 1-12, 11/1996
	A23	RALPH et al., "Low Cost Electrodes for Proton Exchange Membrane Fuel Cells", Journal Of The Electrochemical Society, 144(11):3845-3857, 11/1997
	A24	BOYER et al., "Measurements of Proton Conductivity in the Active Layer of PEM Fuel Cell Gas Diffusion Electrodes," Electrochimica Acta, Vol. 43, No. 24, pp. 3703-09, 1998
	A25	MARR et al., "Composition and Performance Modeling of Catalyst Layer in a Proton Exchange Membrane Fuel Cell," Journal of Power Sources, Vol. 77 No.1, pp. 17-27, 1999

EXAMINER DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.